

APPENDIX H

Proposed LNG Liquefaction Capacity, October 2003

	Plant Capacity		Number of Trains	Lead Plant Operator	Anticipated Start-Up Date	Comments/Expansion Plans
	Million tons of LNG/year	Billion cubic feet of gas/year				
AFRICA						
<i>Algeria</i>						
Arzew (new)	4.0	194.8	1	Gassi Touil Integrated Gas Project	2008+	
<i>Angola</i>						
Soya	8.0	389.6	2	ChevronTexaco, Sonangol, BP, ExxonMobil, Total	2008+	
<i>Egypt</i>						
Damietta	5.0	243.5	1	Segas		Additional proposed train Further expansion. Will require existing partners to bring in gas from other producers
Idku (Edku)	3.6	175.3	1	Egyptian LNG Train 3	2007+	
<i>Equatorial Guinea</i>						
Bioko Island	3.4	165.6	1	Marathon	2007	Signed MOU with BG for sale of 3.4 million tpy with flexibility in gas destination
<i>Nigeria</i>						
Nigeria LNG 6	4.1	199.7	1	Nigeria LNG	mid-2006	Additional proposed train
West Niger Delta	5.0	243.5	1	ExxonMobil, ChevronTexaco, ConocoPhillips	2008+	
Brass River LNG	10.0	487.0	1	NNPC, ENI, ConocoPhillips, ChevronTexaco	2007+	Plant to use associated gas currently flared
Floating LNG	5.0	243.5	1	Statoil, Shell	2009+	Initial feasibility study initiated 2002 by Shell and Statoil

continued

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	Million tons of LNG/year	Billion cubic feet of gas/year				
ASIA PACIFIC						
<i>Australia</i>						
Northwest Shelf 5	4.2	204.5	1	NWS Joint Venture	2007+	Need for train uncertain. Contracts with Japan and China can probably be supplied by existing three trains and train 4 expansion MOU for 5 million tpy to China and 4 mtpa to W. Coast of U.S.
Gorgon LNG	10.0	487.0	2	ChevronTexaco, ExxonMobil, and Shell	2008	
Greater Sunrise	5.3	258.1		Woodside, Osaka Gas, ConocoPhillips, Shell	2009	
<i>Brunei</i>						
Brunei LNG 6	4.0	194.8	1	Brunei LNG	2008+	Depends on proving additional gas reserves
<i>Indonesia</i>						
Donggi	7.0	340.9	2	Pertamina	2008	Potential market W. Coast
Tangguh	7.0	340.9	2	BP, CNOOC, Mitsubishi, Mitsui, Nippon Oil, etc.	2007	Markets Fujian (China), Korea, W. Coast
Bontang Train I	3.5	170.5	1	Total, Unocal	2007+	
EUROPE						
<i>Russia</i>						
Sakhalin II	4.8	233.8	2	Shell, Mitsubishi, Mitsui	2008	Second train 2008 (4.8 million tpy). Consortium of Russian companies have agreed to split the costs of a necessary pipeline from gas fields in Siberia to Murmansk.
Murmansk						

continued

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MIDDLE EAST						
<i>Iran</i>						
NIOC LNG (South Pars Phase 11)	8.0	389.6	2	NIOC, BG, Enel, Agip		
Iran LNG Partnership (South Pars Phase 12)	8.0	389.6	2	NIOC, BP, Reliance Petroleum Ltd.		
Pars LNG	10.0	487.0	2	NIOC, Total and Petronas		
Persian LNG	10.0	487.0	2	NIOC, Repsol and Shell		
<i>Qatar</i>						
Ras Laffan 5/6	15.0	730.5	2	Ras Laffan LNG Company		Agreement between ExxonMobil/QP for 2 new trains for U.S.
QatarGas II	15.0	730.5	2	Qatargas, ExxonMobil	2007/08	Proposed additional train; LNG targeted at UK
Qatargas III	7.8	379.9	1	Qatargas, ConocoPhillips	2009	Targeting the U.S.
Qatargas IV	5.0	243.5	1	Qatargas, Total		Targeting Europe and the U.S.
<i>Yemen</i>						
Yemen LNG	6.0	292.2	2	Yemen LNG		
NORTH AND SOUTH AMERICA						
<i>Bolivia/Peru or Chile</i>						
Margerita	7.0	340.9	2	Total, Repsol, BG, Sempra		Ships gas from Bolivia either to Peru or Chile for liquefaction at the coast. Export via Chile strongly opposed.
<i>Peru</i>						
Camisea	4.0	194.8	1	Hunt Oil Co., SK Corp.	2007	MOU with Tractebel for supply to Lazaro Cardenas (south-west Mexico).
<i>Trinidad and Tobago</i>						
Atlantic LNG 5/6	10.4	506.5	2	Atlantic LNG		Two additional trains under discussion.
<i>United States</i>						
Liquefaction at Valdez, Alaska	14.0	681.8		Yukon Pacific Corporation		Project has been proposed for more than a decade. Gas from North Slope to be transported 500 miles via pipeline to liquefaction terminal at Valdez.
<i>Venezuela</i>						
Marischal Sucre	4.7	228.9	1	Shell, Mitsubishi	2007	Under discussion since 1970s with limited progress.

Data from IEA 2003 *Natural Gas Information*, and updated based on trade press reports as assembled by the Gas Technology Institute.